

Figure 1

SEQ ID NO: 21	(gi 1709203)	1	MARNGSLEEF	60
SEQ ID NO: 22	(gi 1709205)		MAQNGSVEQ	
SEQ ID NO: 2			MAE-----EQFLAVADAAKAGEIIRKGFHETKHVHKQVDLV	
SEQ ID NO: 4			MVDNDSLSEFLASADAAKAGEIIRKGFYQTKNVEHKQVDLV	
SEQ ID NO: 6			MAE-----EQFLAAAVGAAKSAGEIIRKSFYLSKKVEHKQVDLV	
SEQ ID NO: 8			MAE-----EQFLAAAVGAAKSAGEIIRKSFYLSKKVEHKQVDLV	
SEQ ID NO: 21	(gi 1709203)	61	QHFPCHKFIGEETSAAT-GDFDLTDEPTWI	120
SEQ ID NO: 22	(gi 1709205)		QRFPCHKFIGEETAA-CGNFELTDEPTWI	
SEQ ID NO: 2			KHYPDHKFIGEETSAGLADLTDPTWI	
SEQ ID NO: 4			QLYPTHKFIGEETAA-YGTTELTDPTWI	
SEQ ID NO: 6			MLYPDHKFIGEETSAALGSTDDLTYDPTWI	
SEQ ID NO: 8			MLYPDHKFIGEETSAALGSTDDLTYDPTWI	
SEQ ID NO: 21	(gi 1709203)	121	VGWVYDPIIDELFTGINGKGAYLNGKPIK	180
SEQ ID NO: 22	(gi 1709205)		VGWVYNPIIDELFTGIDGKGAFLNGKPIK	
SEQ ID NO: 2			IGWVYNPIINELFTGIHGKGAFLNGNPIK	
SEQ ID NO: 4			VGWVYNPIMNELFTAVRGKGAFLNGSPIK	
SEQ ID NO: 6			INLLFKVRSLRMCGSCALDLCWVACGRLEL	
SEQ ID NO: 8			INLLFKVRSLRMCGSCALNLCVACGRLDL	
SEQ ID NO: 21	(gi 1709203)	181	INLLFKVRSLRMCGSCALDLCWVACGRLEL	240
SEQ ID NO: 22	(gi 1709205)		INLLFKVRSLRMCGSCALNLCVACGRLDL	
SEQ ID NO: 2			INLLFKVRSLRMCGSCALNLCVACGRLDL	
SEQ ID NO: 4			INLLFKVRSLRMCGSCALNLCVACGRLDL	
SEQ ID NO: 6			INLLFKVRSLRMCGSCALNLCVACGRLDL	
SEQ ID NO: 8			INLLFKVRSLRMCGSCALNLCVACGRLDL	
SEQ ID NO: 21	(gi 1709203)	241	SGSEFDITSQ	277
SEQ ID NO: 22	(gi 1709205)		SGSEFDLTARRVAATNAHLKDAFIKA	
SEQ ID NO: 2			SGADFAITSQ	
SEQ ID NO: 4			SGADFAITSQ	
SEQ ID NO: 6			SGADFAITSQ	
SEQ ID NO: 8			SGADFAITSQ	

Figure 2A

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1      1      60
SEQ ID NO:23 (gi 3915048) M-----TSAQKPVF-----SPSDLQT-----WL---
SEQ ID NO:24 (gi 1652942) ML-----PEVEQRLF-----
SEQ ID NO:10 -----
SEQ ID NO:12 -----
SEQ ID NO:14 MLSSSSSTHSDTSPFPGLASANPNRRLRLRAAPVSSAVLSASGRQP-----MSTV
SEQ ID NO:16 -----
SEQ ID NO:18 MFSQCH-----FLSHSPIPNTT-FRLRAMAPHST-----
SEQ ID NO:20 -----HETKPSLP-----YHLRSPSLLATFSSSAAGRACGIAGRWMGSV

61      120
SEQ ID NO:23 (gi 3915048) -----EIAEAVLAAGAEI--FSLWGKVVQIQEKGRAG
SEQ ID NO:24 (gi 1652942) -----IAQQLAAVSGEILIQYFRRSHLQGGTKIDQVS
SEQ ID NO:10 -----
SEQ ID NO:12 -----
SEQ ID NO:14 RASFAAGAAGRAAAVGE--LATERLVEVAQRAADAAGEVLRKYFRQ-RVEIIDKEDHSP
SEQ ID NO:16 -----
SEQ ID NO:18 -----PLELNRPAEVGNKVADAGEVIRKYFRK-NFDVIHKHDLSP
SEQ ID NO:20 RAS-PSEAGGWAVAAAGKEGVDMERLVAVAQSAADAAGEVLRKYFRQ-RFEIIDKEDHSP

121      180
SEQ ID NO:23 (gi 3915048) DLVTEADRQAEAILLEIIKRRCPDHAILAEESG-QLQVDNPFCAIDPLDGTTFNAHSY
SEQ ID NO:24 (gi 1652942) AIVTQADEEAQAMVDLIQAQFPQDGVIREEG--KNIAKSGYTWLDPIDGTSSFVRGL
SEQ ID NO:10 ---HEDKLSVESVILEVTKNFRDHLILGEEGG-LIGDSLSEYLWCIDPLDGTTFNAHGY
SEQ ID NO:12 -----
SEQ ID NO:14 --VTIADREAEEMVSVILKSFPTHAI FGEENGWRC AENSADFVWVLDPIDGTSKFITGK
SEQ ID NO:16 ---HE-----
SEQ ID NO:18 --VTIADQSAEEAMVSIILDNFP SHAIYGEENGWRC EEKNADYVWVLDPIDGTSKFITGK
SEQ ID NO:20 --VTIADREAEEMTSVILKSFPTHAVFGEENGWRC AEKSADYVWVLDPIDGTSKFITGK
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Figure 2B

SEQ ID NO:23	(gi 3915048)	181	PVSCVSIIGLLIQDIPTGVVYNPFRQELFRAATSLGATLNR-----RPIQVSTTASLDK	240
SEQ ID NO:24	(gi 1652942)		PIFATLIGLVADMRPVLGIAHQPISGDRWQVQGEQSNVNGIP-LVNPYKASEINLTAA	
SEQ ID NO:10			PSFSVSIQVLYRGKPAATVVEFCGGPMCWSTRTISASSGKAYCNGQKIHVSPTEKVEQ	
SEQ ID NO:12			-----MCWTRTIFPFAGGGAYYIGQRIHVSQTDKVEQ	
SEQ ID NO:14			PLFGTLIALLLHNG-KPVIQVIDQPILRERWIGVDGKQTTLNGQE-I--SVRSCNL-LAQA	
SEQ ID NO:16			-----LTKVEQ	
SEQ ID NO:18			PVFGTLVALLQNG-TPILGIIDQPVLRERWIGIAGKRTSLNGQE-I--STRTCAD-LSQA	
SEQ ID NO:20			PLFGTLIALLLHNG-KPVMGIIDQPILRERWVGVDGKTKTLNGQE-I--SVRPCNV-LEQA	
SEQ ID NO:23	(gi 3915048)	241	SLLVTG---FAYDRVKTLDNNYPFCYLTHTLTQVRRSGSAAIDLIDVACGRILDGYWERG	300
SEQ ID NO:24	(gi 1652942)		CIVSTTPLMFTTPVQQQKMDIYRQCQRTAFGGDCFNLSAASGWTAMPLVIVEA----D	
SEQ ID NO:10			SLLVTG---FGYEHDDAWLTNINLFKEFTDVSRRRLGSAADMSHVGLGITEAYWEYR	
SEQ ID NO:12			SLLVTGFGYEHDDAWTTNNLNFKEFTDISRGVRR--LGSAAADMSHIGLGITE---AYWE	
SEQ ID NO:14			YLYTTSPLHFEADAEDA-FIRVRNKVKVPLYGDCDCYAYALLASGFVDI---VYES---G	
SEQ ID NO:16			SLLVTG---FGYEHDDAWVTNINLFKEYTDISRGVRLGSAADMSHVALGITEAYWEYR	
SEQ ID NO:18			YLYTTSPLHFNNGDAEEA-FIRVRSKVQFQLYGDCDCYAYALLSSGFVDL---VYES---G	
SEQ ID NO:20			YLYTTSPLHFEGDAEDA-FIRVRDKVKVPLYGDCDCYAYALLASGFVDL---VYES---G	
SEQ ID NO:23	(gi 3915048)	301	INPWDMAAGIVIVREAGGIVSAYDCSPLDLSTGRILATNGKIHQELSQAALATPQ-----	360
SEQ ID NO:24	(gi 1652942)		LNFDYFCALIPILTGANYCFTDWQKEL-----TPESTEVSASPKNLHSE	
SEQ ID NO:10			LKPWDMAGVLIIVEEAGGVVTRMDGGFTVFDRSVLVSNGVVDQLLERIRPATEDLKKK	
SEQ ID NO:12			YRLKPWDVHAGVLIIVEEAGGVVTRMDGGFTVFDRSVLVSNGLVHGQV-----	
SEQ ID NO:14			LKPYDFLSLVPVIEGAGGSITDWRGDKLH-----WPVTAESRPTSFNVVAAAGDARVHKE	
SEQ ID NO:16			LKPWDMAGVLIIVEEAGGVVSRMDGGFTVFDRSVLVSNGVVDQLLDRIGPATEDLKKK	
SEQ ID NO:18			LKPYDFLALIPVIEGAGGVITDWDGDKLF-----WEASPLSIATSFNVVAAAGDKQIHQQ	
SEQ ID NO:20			LKPYDFLSLVPVIEGAGGSITDWEKNKLH-----WPVSSESERPTSFNVVAAAGDSHVHGQ	
SEQ ID NO:23	(gi 3915048)	361	-----WF--QQYAAARAQKI	381
SEQ ID NO:24	(gi 1652942)		ILAFI---Q-----	
SEQ ID NO:10			GIDFSLWFKPDKYPT---DF.	
SEQ ID NO:12			-----CL	
SEQ ID NO:14			ALDALRWR.-----	
SEQ ID NO:16			GIDFSLWFKPDKYPT---DF.	
SEQ ID NO:18			ALDSLQWK.-----	
SEQ ID NO:20			ALALRWR.-----	